

# SOS Education Forum



Last modified on May 4, 2017

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The Education Forum is a group of educators, docents, and content creators within the SOS Collaborator's Network who meet quarterly via online webinar to discuss primarily how SOS can effectively educate K-12 and beyond. Please email Hilary Peddicord ([hilary.peddicord@noaa.gov](mailto:hilary.peddicord@noaa.gov)) to sign up for this group. Click on the links below to access the meeting notes or archived webinars.

## Past Agendas, Archived Webinars, & Notes

- [November, 2016 \(Archived Webinar\) - Visualizing Change and new "LIFE" datasets in-depth](#)  
Visualizing Change - Aquarium of the Pacific and partners developed new Live Program Series [and so much more] examining the strategic framework around talking about Global Change. - Emily Yam  
[Phytoplankton Model](#) - MIT - Stephanie Dutkiewicz  
[Coral Bleaching Real-time](#) - National Ocean Service - NOAA Coral Reef Conservation Program - Paulo Maurin  
[Bird Migration](#) - Cornell Lab of Ornithology - Frank La Sorte
- [September 2016 \(Archived Webinar\) - Visual Playlist Editor - SOS 5.1 How-to](#)  
In the SOS 5.1 release, the new visual playlist editor is complete and fully functional as a dataset editor and playlist builder. The Visual Playlist Editor is an interactive playlist editor that visually lays out, modifies, and previews SOS dataset content.
- [August, 2016 \(Archived Webinar\) - Latest and Greatest Content In-Depth](#)
  - Forest Change (Extent, Gain, Loss) - Sarah Mann - Global Forest Watch
  - Marine Debris: Garbage Patch Experiment - Greg Shirah - NASA GSFC
  - Ocean Surface Vorticity - Mathew Maltrud - Los Alamos National Laboratory
  - GFS Forecast Models - Real-time (new and improved) - Dan Pisut - NOAA NESDIS
  - Tsunami Historical Series - Leon Geschwind - NOAA NOS
- [May 2016 \(Archived Webinar\) - Student-Centered SOS](#)
  - Darik Velez , St. Paul's School - High School Content Creation Class
  - Patrick Rowley, James E Richmond Science Center, Charles County Public Schools - [SOS Curriculum Building for all ages](#)
  - Erik MacIntosh, NOAA HQ, Silver Spring - Straight to the Sphere: Map-Making Activity ([Activity Files](#) and [How-to PowerPoint Slides](#))
  - Hilary Peddicord, SOS Boulder Team - [SOS Explorer Exhibit](#) and [Student Interactive SOS Demo](#)
- [February 2016 \(Archived Webinar\) - Visual Playlist Editor](#)  
In the SOS 5.0 release, we added a new playlist editor. The Visual Playlist Editor training at the 2015 Workshop was the most highly attended presentation; therefore, we thought it would be an important new feature to revisit in this forum.  
  
The Visual Playlist Editor is a new interactive playlist editor that visually lays out, modifies, and previews SOS dataset content. It is being released with SOS 5.0 as a "preview edition" to provide the SOS community an early look at what is planned to be a replacement for the existing playlist editor and it represents a major advance in how SOS content and presentations will be created and augmented.
- [July 2015 \(Archived Webinar\) - Live Programs](#)  
SOS Hollings Scholar intern, Joe Lilek, was featured in a webinar showcasing live programs. With the

introduction of the **presenter notes feature on the iPad app**, live programs are easier than ever to use, especially since Joe has been busy converting the scripts for many of the existing live programs to presenter notes on the iPad. Joe will describe three new live programs that he created, which incorporate **interactive elements**. This is also an opportunity for SOS sites to share about their own live programs and their strategies for audience engagement.

Joe's three new programs are available on the SOS website (linked below) and under Live Programs on your iPad remote.

1. [Mitigation or Adaptation: You Decide](#) - Following a broad overview of climate change, audience members are presented with realistic scenarios from around the world: Should we build a resort hotel in Miami Beach? How do we address air pollution in Beijing? How do we feel about longer growing seasons in Greenland? Audience members use clickers to vote on a course of action and the results give a launching point for discussion.
  2. [Deciphering Uncertainty in a Changing Climate](#) - This live program explains the three types of scientific uncertainty: natural variability, model uncertainty, and scenario uncertainty. To better understand the difficulty that comes with communicating uncertainty, audience members play an estimation game to guess the precise percentage of likelihood that corresponds to phrases used in the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report like "very likely" and "virtually certain."
  3. [Seeking Common Ground on Climate](#) - This live program explores resources that are shared by everyone on Earth and why international cooperation is vital to confronting climate change. Shared resources are discussed in the context of "the Tragedy of the Commons" and a mock debate between audience members is facilitated to internalize the difficulty and complexity of international climate negotiations.
- **March 2015 (Archived Webinar) - Hands-on Activities: Used with SOS programs to reinforce subject content and increase understanding**
    - Stephanie Schollaert-Uz - NASA Goddard, University of Maryland - Did using hands-on activities increase understanding of climate and ocean circulation? Click for [Food Web Activity](#) - used with El Nino SOS program.
    - Dorian Janney - NASA Goddard - Water Falls GPM [Mission Education page](#) and [Rain Engauge hands-on activities](#).
    - Brenna Holzhauer - Aldo Leopold Nature Center - Hands-on activities used with SOS programs.
    - Hilary Peddicord - NOAA Boulder SOS - Click for [Map making activity: How-to add drawings directly to the sphere](#)
    - Robin Ramsey - Boonshoft Museum - Hands-on activities used with Plate Tectonics SOS program.
  - **September 2014 (Archived Webinar) - Art & SOS: Making content more meaningful & fun (archive does not have sound)**
    - Shilpi Gupta - NOAA SOS Boulder - SOS: Cognition + Affect = Effect: A collaborative experiment between artists and scientists
    - Robin Ramsey - Boonshoft Museum - Pairing Isabelle Kirkland's art of biodiversity and extinction with SOS climate change concepts
    - Victoria Weeks - Verglas Media - A filmmaker's perspective of using movies, sound, photography, etc. with docent presentations and custom animations
    - Toshi Komatsu - Lawrence Hall of Science - Student-made datasets of exoplanets, a NASA Kepler art and education program
    - Jessica Beebe - NASA Wallops - Art & the Cosmic Connection: NASA's Discovery and New

Frontiers Programs

- **March 2014 - Topic: Techniques and applications for engaging your audience**
  - Introduction to Audience Response Systems (clickers) - Hilary Peddicord, NOAA
  - Programming, successes and challenges with iClickers - Robert Morris, Clark Planetarium
  - Creating Compelling Stories - Toshi Komatsu, Lawrence Hall of Science
  - NESO (NEO + Space Science Data) = Interactive display and analysis tool for accessing near real-time data on SOS - Maurice Henderson, NASA Goddard & Annette Brickley, Ocean Explorium
- **December 2013 (Archived Webinar) - Topic: New SOS Script: Human Health & Climate Change**
  - Why use health in climate change education? Lisa Gardiner, UCAR
  - Script and new datasets - Eryka Thorley - UC Denver/ NOAA
  - What is Dengue and how is it spreading? Mary Hayden - NCAR
- **September 2013 - Topic: How to utilize partnerships for supplementing your programming and creating content**
  - Ocean Explorium / Woods Hole Oceanographic Institute
  - Science Museum of Minnesota
  - University of Colorado graduate student & Boulder SOS team
  - Q/A / Check-in - What's new in the network?
- **June 2013 - Topic: Community engagement activities**
  - From Risk to Resiliency, Kate Brandes, Nuture Nature Center
  - Summer of Discovery, Bryan DeBates, Space Foundation
  - Google Hangouts with SOS, Laura Allen, AMNH
  - Q/A - utilizing member expertise for new sites - ex. South Florida Science Museum
- **March 2013 - Topic: SOS educational techniques**
  - Preview of a 100th Installation Tribute video clip
  - Update from NOAA Boulder on Teacher PD - Summer workshop - making the SOS experience 'active' for students
  - Next steps in SOS education from Britta Culbertson- NOAA Office of Education Einstein Fellow Distinguished Educator
  - Update from Lawrence Hall of Science's Sherry Hsi on Math on a Sphere
  - Update from Space Foundation's Amy Robinson on new K-12 programming and activities
  - Q/A and other updates from the Network
- **December 2012 - Welcome to the group!**
  - SOS Collaboration Wall overview - GoTo Meeting Webinar
  - Suggested *share one item* on the Discussion Wall or Files & Documents page before the holidays to help populate and get used to the format of the new collaboration space
  - Discussion: Why did you join this group? How do you envision this group supporting you in your mission?
  - What's happening with SOS at your site - successes and struggles - that we should know about?